

**TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT**  
**(Under 37 CFR 1.97(b) or 1.97(c))**

Docket No.  
DP-309380

In Re Application Of: **Michael R. Foster**

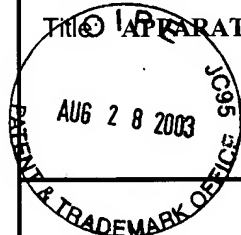
Serial No.  
10/623,941

Filing Date  
July 21, 2003

Examiner  
unassigned

Group Art Unit  
unassigned

**THE APPARATUS AND METHOD FOR REDUCED COLD START EMISSIONS**



Address to:  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**37 CFR 1.97(b)**

1. ☒ The Information Disclosure Statement submitted herewith is being filed within three months of the filing of a national application other than a continued prosecution application under 37 CFR 1.53(d); within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; before the mailing of a first Office Action on the merits, or before the mailing of a first Office Action after the filing of a request for continued examination under 37 CFR 1.114.

**37 CFR 1.97(c)**

2. ☐ The Information Disclosure Statement submitted herewith is being filed after the period specified in 37 CFR 1.97(b), provided that the Information Disclosure Statement is filed before the mailing date of a Final Action under 37 CFR 1.113, a Notice of Allowance under 37 CFR 1.311, or an Action that otherwise closes prosecution in the application, and is accompanied by one of:
- ☐ the statement specified in 37 CFR 1.97(e);
- OR**
- ☐ the fee set forth in 37 CFR 1.17(p).

**TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT**  
(Under 37 CFR 1.97(b) or 1.97(c))

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**APPARATUS AND METHOD FOR REDUCED COLD START EMISSIONS**



**Payment of Fee**

(Only complete if Applicant elects to pay the fee set forth in 37 CFR 1.17(p))

- ☐ A check in the amount of \_\_\_\_\_ is attached.
- ☒ The Director is hereby authorized to charge and credit Deposit Account No. **06-1130** as described below.
- ☐ Charge the amount of \_\_\_\_\_
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- ☒ Charge any additional fee required.

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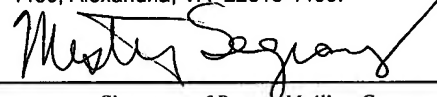
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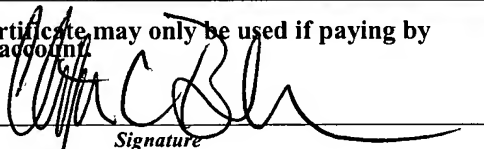


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Dated: **August 25, 2003**

Christ per C. Boehm

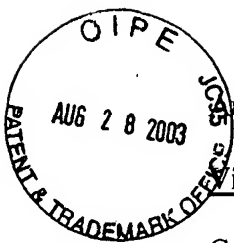
Reg. No. 41,624

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August 25, 2003

Via First Class Mail

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Re: Michael R. Foster  
Entitled: APPARATUS AND METHOD FOR REDUCED COLD  
START EMISSIONS  
Serial No: 10/623,941  
Filed: July 21, 2003  
Docket No.: DP-309380

Sir:

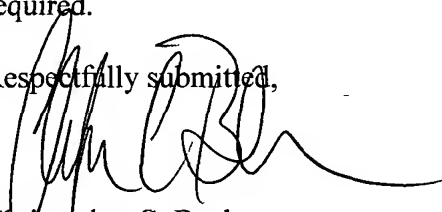
We enclose herewith:

- ☒ Transmittal of Information Disclosure Statement
- ☒ Information Disclosure Citation
- ☒ Acknowledgment Postcard

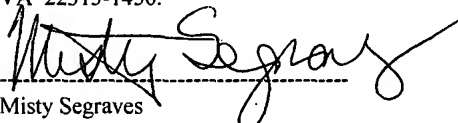
The Commissioner is hereby authorized to charge payment of the fees associated with this communication or credit any overpayment to Deposit Account No. 06-1130.

Applicant hereby petitions under 37 CFR 1.136 and other applicable rules to have the response period extended the number of months necessary to render the attached communication timely in the event a petition is required.

Respectfully submitted,

  
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DP-309380Serial No.  
10/623,941Applicant  
Michael R. FosterFiling Date  
July 21, 2003Group  
unassigned**U.S. PATENT DOCUMENTS**

Exam. Init.	Document Number	Date	Name	Class	Sub Class	Filing Date (if approp.)
	1,260,724	03/26/1918	W. B. Slaughter, Jr. & R. A. Gaertner			10/30/1916
	3,091,741	05/28/63	L. C. Eisaman et al.	331	183	04/18/1957
	3,752,138	08/14/1973	Gaines	123	139R	08/09/1971
	3,976,042	08/24/1976	Baguelin	123	139AR	10/08/1974
	4,006,722	02/08/1977	Hata et al.	123	124A	01/31/1975
	4,036,014	07/19/1977	Ariga	60	274	10/10/1975
	4,129,109	12/12/1978	Matsumoto	123	198F	08/11/1977
	4,134,261	01/16/1979	Iizuka et al.	60	276	08/15/1977
	4,143,635	03/13/1979	Iizuka et al.	123	198F	12/06/1977
	4,184,470	01/22/1980	Iizuka	123	198F	04/13/1978

**FOREIGN PATENT DOCUMENTS**

Document Number	Date	Country	Class	Subclass	Translation Yes   No
JP58-140432	20-08-1983	Japan	F02D17	02	No
EP0846221B1	03-11-1999	PCT	F02D17	02	Yes
EP0919702A2	02-06-1999	PCT	F01N3	20	No

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

International Search Report for PCT/US02/37775, April 9, 2003, pages I &amp; II

International Search Report for PCT/US02/37813, April 4, 2003, pages I &amp; II

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**U.S. PATENT DOCUMENTS**

Exam. Init.	Document Number	Date	Name	Class	Sub Class	Filing Date (if approp.)
	4,207,856	07/17/1980	Sugasawa et al.	123	198F	07/06/1978
	4,303,053	12/01/1981	Etoh et al.	123	568	05/02/1980
	4,305,249	12/15/1981	Schmid et al.	60	274	11/02/1979
	4,344,393	08/17/1982	Etoh et al.	123	198F	06/20/1980
	4,391,095	07/05/1983	Virk	60	286	07/02/1981
	4,391,240	07/05/1983	Sugasawa et al.	123	198F	03/26/1980
	4,395,875	08/02/1983	Virk	60	274	07/24/1981
	4,404,796	09/20/1983	Wade	60	274	06/03/1982
	4,436,060	03/13/1984	Tanaka et al.	123	41.1	01/28/1981
	4,450,801	05/29/1984	The dens et al.	123	198F	11/16/1981
	4,459,952	07/17/1984	Holstein	123	198F	07/28/1982
	4,484,548	11/27/1984	Sugasawa et al.	123	198F	11/12/1980

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Document Number	Date	Country	Class	Subclass	Translation Yes   No
EP0919702A3	16-08-2001	Germany	F01N3	20	No
WO970841	05-08-1996	PCT	F02D17	02	Yes

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

Clean Diesel III, Southwest Research Institute, January 2001, pages 1-80 inc. attachments

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**U.S. PATENT DOCUMENTS**

Exam. Init.	Document Number	Date	Name	Class	Sub Class	Filing Date (if approp.)
	4,550,704	11/05/1985	Barho et al.	123	481	03/19/1984
	4,572,148	02/25/1986	Deutschmann et al.	123	559	07/11/1984
	4,640,241	02/03/1987	Matsunaga	123	198F	05/29/1985
	4,671,226	06/09/1987	van Rinsum	123	179F	01/04/1982
	4,860,716	08/29/1989	Deutschmann	123	560	05/03/1988
	4,930,455	06/05/1990	Creed et al.	123	41.1	10/14/1988
	4,936,273	06/26/1990	Myers	123	321	04/28/1989
	4,976,228	12/11/1990	Kawamura	123	90.11	10/13/1989
	5,042,444	08/27/1991	Hayes et al.	123	339	05/07/1990
	5,043,894	08/27/1991	Yamaguchi	364	424.1	07/05/1989
	5,088,460	02/18/1992	Echeverria	123	322	09/01/1989
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Document Number	Date	Country	Class	Subclass	Translation Yes   No
WO03/048533A1	12-06-2003	PCT	F01N3	00	Yes

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**U.S. PATENT DOCUMENTS**

Exam. Init.	Document Number	Date	Name	Class	Sub Class	Filing Date (if approp.)
	5,101,801	04/07/1992	Schatz	123	556	03/28/1991
	5,117,790	06/02/1992	Clarke et al.	123	321	02/19/1991
	5,138,992	08/18/1992	Krieger	123	198F	01/15/1992
	5,190,013	03/02/1993	Dozier	123	481	01/10/1992
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	5,433,182	07/18/1995	Augustin et al.	123	456	10/13/1994
	5,483,941	01/16/1996	Cullen et al.	123	481	10/25/1993
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	5,555,871	09/17/1996	Gopp et al.	123	481	05/08/1995
	5,647,207	07/15/1997	Grotjahn et al.	60	300	06/19/1995

**FOREIGN PATENT DOCUMENTS**

Document Number	Date	Country	Class	Subclass	Translation Yes No
WO03/048548A1	12-06-2003	PCT	F02D17	02	Yes

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## U.S. PATENT DOCUMENTS

Exam. Init.	Document Number	Date	Name	Class	Sub Class	Filing Date (if approp.)
	5,655,365	08/12/1997	Worth et al.	60	285	06/06/1995
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	5,720,260	02/24/1998	Meyer et al.	123	436	12/13/1996
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	5,867,982	02/09/1999	Tengblad et al.	60	274	06/02/1995
	5,875,743	03/02/1999	Dickey	123	25C	07/28/1997
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Exam. Init.	Document Number	Date	Name	Class	Sub Class	Filing Date (if approp.)
	5,979,394	11/09/1999	Schmidt	123	198F	05/21/1998
	6,009,857	01/04/2000	Hasler et al.	123	481	05/29/1997
	6,023,929	02/15/2000	Ma	60	295	08/25/1998
	6,032,869	03/07/2000	Ito et al.	237	12.3B	04/02/1997
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	6,164,065	12/26/2000	Denari et al.	60	284	11/12/1999
	US6,178,371B1	01/23/2001	Light et al.	701	93	04/12/1999
	US6,209,526B1	04/03/2001	Sun et al.	123	481	10/18/1999
	US6,220,233B1	04/24/2001	Pierpont	123	568.12	10/13/1999
	US6,237,330B1	05/29/2001	Takahashi et al.	60	285	04/13/1999
	US6,244,242B1	06/12/2001	Grizzle et al.	123	295	10/18/1999
	US6,244,258B1	06/12/2001	Akiyama et al.	123	568.21	12/01/1999

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	US6,305,344B1	10/23/2001	Perry	123	198F	10/03/2000
	US6,336,071B2	01/01/2002	Grizzle et al.	701	115	04/02/2001
	US6,354,266B1	03/12/2002	Cornell et al.	123	322	12/20/2000
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	US6,367,443B1	04/09/2002	Bassi et al.	123	198F	03/22/2000
	US6,382,193B1	05/07/2002	Boyer et a.	123	560	11/20/2000
	US6,408,618B2	06/25/2002	Ide	60	285	02/01/2001
	US6,467,257B1	10/22/2002	Khair et al.	60	278	06/19/2001
	US6,543,398B1	04/08/2003	Roberts, Jr. et al.	123	58.8	07/19/2001
	US6,557,520B2	05/06/2003	Roberts, Jr.	123	276	08/30/2001
	US2001/0002379A1	05/31/2001	Schechter	477	115	01/12/2001
	US2001/0002538A1	06/07/2001	Katsuta et al.	60	284	12/06/2000

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	US2001/0050070A1	12/13/2001	Xu et al.	123	295	06/11/2001
	US2002/0020169A1	02/21/2002	Ketcher	60	285	08/21/2001
	US2002/0059915A1	05/23/2002	Houston et al.	123	305	10/05/2001
	US2003/0041836A1	03/06/2003	Roberts, JR.	123	276	08/30/2001
	US2003/0066507A1	04/10/2003	Roberts, JR.	123	256	10/10/2001
	US2003/0074893A1	04/24/2003	Webb et al.	60	285	10/11/2002
	US2003/0101961A1	06/05/2003	Foster	123	198F	11/25/2002
	US2003/0121249A1	07/03/2003	Foster et al.	60	285	11/25/2002

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